

Supplementary material for the article:

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Table 1. Correlations between TPC and antioxidant activity (DPPH, FRC, and FCC) in acetone extracts

	DPPH	TPC	FRC	FCC
DPPH	1.000	0.968	0.812	0.582
TPC	0.968	1.000	0.859	0.660
FRC	0.812	0.859	1.000	0.774
FCC	0.582	0.660	0.774	1.000

^aCorrelation coefficient. Bolded numbers indicate statistically significant correlation ($p < 0.05$). FRC- ferric ion reducing capacity assay, FCC- ferrous ion chelating capacity assay.

Table 2. Correlations^a between antioxidant activities (DPPH, FRC, and FCC) and content of individual phenolic compounds (acetone extracts).

Phenolic compounds	DPPH	FRC	FCC
Gallic acid	0,797	0,874	0,501
Protocatechuic acid	-0,224	-0,286	-0,357
<i>p</i> -Hydroxybenzoic acid	-0,699	-0,696	-0,687
Chlorogenic acid	0,341	0,200	0,109
Caffeic acid	0,140	0,099	0,087
<i>p</i> -Coumaric acid	-0,265	-0,053	-0,076
Ferulic acid	-0,827	-0,756	-0,729
Rosmarinic acid	-0,042	-0,025	-0,059
Catechin	0,604	0,598	0,281
Epicatechin	-0,562	-0,538	-0,142
Catechin gallate	0,325	0,121	0,137
Gallocatechin gallate	0,496	0,268	0,432
Epigallocatechin gallate	0,289	0,612	0,398
Epigallocatechin	0,914	0,859	0,461
Quercetin	-0,858	-0,825	-0,796
Rutin	-0,875	-0,865	-0,645
Kaempferol	-0,705	-0,674	-0,591
Morin	-0,887	-0,873	-0,672
Galangin	0,453	0,483	0,267
Naringenin	0,820	0,842	0,772
Naringin	0,054	0,234	-0,195
Chrysin	0,145	0,294	0,035
Hesperetin	-0,574	-0,558	-0,211
Luteolin	-0,193	0,028	0,137
Apigenin	0,729	0,634	0,472

^aCorrelation coefficient. Bolded numbers indicate statistically significant correlation ($p < 0.05$).

Table 3. Phenolic composition of seed coat aqueous extracts.

	mg/kg	Water									
		Alsaug	Assas	Dora	Golf	Poneka	Törsz	MBK 88	MBK 90	MBK 168	MBK 173
Phenolic acids	Gallic acid	24.99	14.60	39.81	12.03	43.15	1.99	0.60	0.18	26.03	27.91
	Protocatechuic acid	0.80	0.98	0.94	0.59	1.54	0.54	1.00	0.71	0.61	0.38
	<i>p</i> -Hydroxybenzoic acid	0.87	2.21	1.00	13.15	2.83	61.43	62.34	15.00	0.39	1.49
	Chlorogenic acid	1.14	1.78	1.23	0.66	1.21	0.77	0.63	1.19	1.19	1.21
	Caffeic acid	0.68	0.34	0.48	0.66	0.56	0.95	0.67	0.15	0.68	0.70
	<i>p</i> -Coumaric acid	0.38	0.95	0.95	0.19	0.65	0.65	1.23	0.96	0.53	0.39
	Ferulic acid	1.29	1.42	1.91	1.76	1.25	2.35	2.43	3.70	1.65	1.54
	Rosmarinic acid	0.12	0.13	0.12	0.12	0.12	0.12	n.d.	0.23	n.d.	0.12
Flavanols	Catechin	1.93	2.62	3.44	2.08	2.42	2.57	3.75	n.d.	2.12	2.10
	Epicatechin	0.96	1.43	1.64	6.18	1.43	6.03	4.30	0.78	0.94	1.00
	Catechin gallate	0.30	0.34	0.28	0.29	0.28	0.28	0.31	0.32	0.31	0.32
	Gallocatechin gallate	n.d.	5.39	5.53	n.d.	6.54	11.34	7.00	5.37	6.07	n.d.
	Epigallocatechin gallate	0.51	0.83	0.62	0.90	0.76	0.80	0.55	0.87	0.68	0.76
	Epigallocatechin	123.62	69.57	107.16	34.46	114.22	5.21	2.41	1.51	127.69	130.03
Flavonols	Quercetin	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	0.14	n.d.	n.d.	n.d.
	Rutin	0.26	0.27	0.27	0.45	0.27	0.86	0.56	0.87	0.27	0.28
	Kaempferol	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
	Morin	n.d.	0.33	0.33	0.42	0.33	0.52	0.45	0.82	0.34	0.33
	Galangin	0.71	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Flavanones	Naringenin	0.01	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
	Naringin	0.29	0.34	0.33	0.27	0.32	0.33	0.48	0.27	0.43	0.37
	Chrysin	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
	Hesperetin	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Flavones	Luteolin	0.47	0.44	0.45	0.41	0.57	0.41	0.40	n.d.	0.50	0.50
	Apigenin	0.24	0.24	0.23	n.d.	0.23	n.d.	n.d.	n.d.	0.23	0.23

n.d. – not detected

Table 4. Correlations between intensities of cytotoxic activity and contents of individual phenolic compounds in aqueous extracts

	IC ₅₀ MDA-MB-453	IC ₅₀ LS174	IC ₅₀ K562	IC ₅₀ A549	IC ₅₀ MRC-5
Gallic acid	-0.544	-0.500	-0.527	0	0.107
Protocatechuic acid	-0.159	0.067	0.117	0.143	-0.036
p-Hydroxybenzoic acid	0.862	0.883	0.895	0.750	0.714
Chlorogenic acid	-0.546	-0.527	-0.508	0.108	0.018
Caffeic acid	0.210	0.025	-0.034	-0.559	-0.342
p-Coumaric acid	0.270	0.370	0.409	0.144	0.018
Ferulic acid	0.745	0.717	0.711	0.464	0.500
Catechin	0.410	0.500	0.536	0.393	0.286
Epicatechin	0.824	0.904	0.920	0.955	0.901
Gallocatechin gallate	0.374	0.475	0.494	0.111	0.037
Epigallocatechin gallate	0.227	0.159	0.181	0.577	0.522
Epigallocatechin	-0.695	-0.817	-0.862	-0.750	-0.571
Rutin	0.922	0.810	0.791	0.611	0.709
Morin	0.726	0.679	0.682	0.512	0.512
Naringin	0.143	-0.017	-0.025	-0.429	-0.393
Luteolin	-0.679	-0.706	-0.738	-0.451	-0.324

Bolded numbers indicate statistically significant correlation ($p < 0.05$).